

PHOTOCATALYST WITH TITANIUM DIOXIDE AS BASE MATERIAL AND ITS PRODUCTION

Patent Number: JP9267037

Publication date: 1997-10-14

Inventor(s): MORIMITSU KOICHI; KURIHARA TOKUMITSU; SAITO TATSUO; BUSAKA HIDEKI

Applicant(s): TITAN KOGYO KK

Requested Patent: JP9267037

Application Number: JP19960106132 19960401

Priority Number(s):

IPC Classification: B01J21/06; B01J35/02; B01J35/10

EC Classification:

Equivalents: JP3388993B2

Abstract

PROBLEM TO BE SOLVED: To provide a photocatalyst being a titanium dioxide forming solid soln. with Nb (V).

SOLUTION: The titanium dioxide containing 0.1-5.0wt.% Nb₂O₅ and having 50-350m²/g specific surface area or the titanium dioxide containing 0.1-5.0wt.% Nb₂O₅ and having a crystalline diameter within a range of 80-250&angst exhibit an excellent photocatalytic activity. The photocatalyst is obtained by adding a Nb(V) compd. to titanyl sulfate or metatitanic acid and heating at <=700 deg.C.

Data supplied from the esp@cenet database - I2

BEST AVAILABLE COPY